

# Calcineurin A Polyclonal Antibody

**CATALOG #:** 3075-100

**AMOUNT:** 100 µg

**LOT #:** \_\_\_\_\_

**HOST:** Rabbit

**SPECIES REACTIVITY:** human, mouse, rat, rabbit, bovine, hamster, dog

## IMMUNOGEN:

Synthetic peptide corresponding to residues surrounding amino acids 267 of human Calcineurin A (Internal ID# BV-C34).

## FORMULATION:

100 µg (0.2 mg/ml) affinity purified, rabbit anti-Calcineurin A polyclonal antibody in phosphate buffered saline (PBS), pH 7.2, containing 30% glycerol, 0.5% BSA, 0.01% thimerosal.

## STORAGE CONDITIONS:

Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

## BACKGROUND DESCRIPTION:

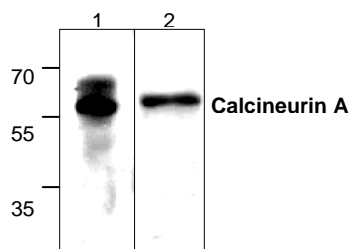
Calcineurin is a calcium/calmodulin-dependent serine/threonine protein phosphatase. The active enzyme is a heterodimer consisting of a catalytic A subunit of 61 kDa and a myristylated regulatory B subunit of 19 kDa that binds calcium. The catalytic A subunit consists of an amino terminal catalytic domain, followed by calmodulin and B subunit binding sites, and a carboxyl-terminal autoinhibitory domain. Calcineurin is the target of immunosuppressant drugs such as cyclosporin A and FK506. Calcineurin controls the translocation of nuclear factors of activated T cells (NFAT), a family of transcriptional activators that control the expression of cytokine genes essential to immune response, from the cytosol into the nucleus of activated T cells. Calcineurin has been proposed to play an important role in mediating calcium-activated cell death.

## SPECIFICITY:

The immunoaffinity purified antibody detects a 61 kDa band, corresponding to the expected molecular weight of Calcineurin A on immunoblots. A 32 kDa band can also be detected in human samples, presumably to be the cleavage product of Calcineurin A.

## APPLICATION AND USAGE:

The antibody can be used for Western blotting (1-4 µg/ml). Per researcher's feedback, it can also be used for immunoprecipitation (10-20 µg/ml). However, the optimal conditions should be determined individually. Blocking peptide (Cat.# 3075BP-50) is available separately.



### Cat.# 3075-100

Western blot analysis of Calcineurin A in lysate from Jurkat cells (Lane 1) and rat kidney (Lane 2).

## RELATED PRODUCTS:

### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- β-Galactosidase Staining Kit & Luciferase Reporter Assay Kit

### Growth Factors and Cytokines

### Monoclonal and Polyclonal Antibodies